

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/824,468

DATE: 04/26/2001

TIME: 10:28:23

Input Set : N:\Crf3\RULE60\09824468.txt
 Output Set: N:\CRF3\04262001\I824468.raw

f/n

4 <110> APPLICANT: Krieg, Arthur M.
 5 Weiner, George
 7 <120> TITLE OF INVENTION: Methods and Products for Stimulating the
 8 Immune System Using Immunotherapeutic Oligonucleotides and
 9 Cytokines
 11 <130> FILE REFERENCE: C1039/7026/HCL
 13 <140> CURRENT APPLICATION NUMBER: 09/824,468
 14 <141> CURRENT FILING DATE: 2001-04-02
 16 <150> PRIOR APPLICATION NUMBER: 09/286,098
 17 <151> PRIOR FILING DATE: 1999-04-02
 19 <160> NUMBER OF SEQ ID NOS: 105
 21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 15
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Synthetic Sequence
 31 <400> SEQUENCE: 1
 32 gctagacgtt agcgt 15
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 15
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial Sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Synthetic Sequence
 42 <400> SEQUENCE: 2
 43 gctagatgtt agcgt 15
 45 <210> SEQ ID NO: 3
 46 <211> LENGTH: 15
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <221> NAME/KEY: modified_base
 52 <222> LOCATION: (7)...(7)
 53 <223> OTHER INFORMATION: m5c
 55 <223> OTHER INFORMATION: Synthetic
 57 <400> SEQUENCE: 3
 58 gctagacgtt agcgt 15
 60 <210> SEQ ID NO: 4
 61 <211> LENGTH: 15
 62 <212> TYPE: DNA
 63 <213> ORGANISM: Artificial Sequence
 65 <220> FEATURE:
 66 <223> OTHER INFORMATION: Synthetic Sequence
 68 <221> NAME/KEY: modified_base
 69 <222> LOCATION: (13)...(13)

ENTERED

RAW SEQUENCE LISTING DATE: 04/26/2001
PATENT APPLICATION: US/09/824,468 TIME: 10:28:23

Input Set : N:\Crf3\RULE60\09824468.txt
Output Set: N:\CRF3\04262001\I824468.raw

70 <223> OTHER INFORMATION: m5c
72 <400> SEQUENCE: 4
73 gctagacgtt agcg 15
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 15
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Synthetic Sequence
83 <400> SEQUENCE: 5
84 gcatgacgtt gagct 15
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 20
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Synthetic Sequence
94 <400> SEQUENCE: 6
95 attggaaaggtc cagcg 20
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 20
99 <212> TYPE: DNA
C--> 100 <213> ORGANISM: SArtificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Synthetic Sequence
105 <400> SEQUENCE: 7
106 atcgactctc gagcg 20
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 20
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Synthetic Sequence
116 <221> NAME/KEY: modified_base
117 <222> LOCATION: (3)...(3)
118 <223> OTHER INFORMATION: m5c
120 <221> NAME/KEY: modified_base
121 <222> LOCATION: (10)...(10)
122 <223> OTHER INFORMATION: m5c
124 <221> NAME/KEY: modified_base
125 <222> LOCATION: (14)...(14)
126 <223> OTHER INFORMATION: m5c
128 <400> SEQUENCE: 8
129 atcgactctc gagcg 20
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 20
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 04/26/2001
PATENT APPLICATION: US/09/824,468 TIME: 10:28:23

Input Set : N:\Crf3\RULE60\09824468.txt
Output Set: N:\CRF3\04262001\I824468.raw

137 <223> OTHER INFORMATION: Synthetic Sequence
139 <221> NAME/KEY: modified_base
140 <222> LOCATION: (3)...(3)
141 <223> OTHER INFORMATION: m5c
143 <400> SEQUENCE: 9
144 atcgactctc gagcgttctc 20
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 20
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Synthetic Sequence
154 <221> NAME/KEY: modified_base
155 <222> LOCATION: (18)...(18)
156 <223> OTHER INFORMATION: m5c
158 <400> SEQUENCE: 10
159 atcgactctc gagcgttctc 20
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 20
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Synthetic Sequence
169 <400> SEQUENCE: 11
170 atcgactctc gaacgttctc 20
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 20
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Synthetic Sequence
180 <400> SEQUENCE: 12
181 gagaacgctg gacccat 20
183 <210> SEQ ID NO: 13
184 <211> LENGTH: 20
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Synthetic Sequence
191 <400> SEQUENCE: 13
192 gagaacgctc gaccttccat 20
194 <210> SEQ ID NO: 14
195 <211> LENGTH: 20
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Synthetic Sequence
202 <400> SEQUENCE: 14
203 gagaacgctc gaccttcgat 20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/824,468

DATE: 04/26/2001
TIME: 10:28:23

Input Set : N:\Crf3\RULE60\09824468.txt
Output Set: N:\CRF3\04262001\I824468.raw

205 <210> SEQ ID NO: 15
206 <211> LENGTH: 20
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Synthetic Sequence
213 <400> SEQUENCE: 15
214 gagcaagctg gacccat 20
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 20
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Synthetic Sequence
224 <221> NAME/KEY: modified_base
225 <222> LOCATION: (6)...(6)
226 <223> OTHER INFORMATION: m5c
228 <400> SEQUENCE: 16 20
229 gagcacgctg gacccat
231 <210> SEQ ID NO: 17
232 <211> LENGTH: 20
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Synthetic Sequence
239 <221> NAME/KEY: modified_base
240 <222> LOCATION: (14)...(14)
241 <223> OTHER INFORMATION: m5c
243 <400> SEQUENCE: 17 20
244 gagaacgctg gacccat
246 <210> SEQ ID NO: 18
247 <211> LENGTH: 20
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Synthetic Sequence
254 <400> SEQUENCE: 18 20
255 gagaacgatg gacccat
257 <210> SEQ ID NO: 19
258 <211> LENGTH: 20
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Synthetic Sequence
265 <400> SEQUENCE: 19 20
266 gagaacgctc cagcactgat
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 19
270 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/824,468

DATE: 04/26/2001
TIME: 10:28:23

Input Set : N:\Crf3\RULE60\09824468.txt
Output Set: N:\CRF3\04262001\I824468.raw

271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Synthetic Sequence
276 <400> SEQUENCE: 20 19
277 ccatgtcggt cctgatgct
279 <210> SEQ ID NO: 21
280 <211> LENGTH: 20
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Synthetic Sequence
287 <400> SEQUENCE: 21 20
288 tccatgctgg tcctgatgct
290 <210> SEQ ID NO: 22
291 <211> LENGTH: 20
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Synthetic Sequence
298 <221> NAME/KEY: modified_base
299 <222> LOCATION: (8)...(8)
300 <223> OTHER INFORMATION: m5c
302 <400> SEQUENCE: 22 20
303 tccatgtcggt tcctgatgct
305 <210> SEQ ID NO: 23
306 <211> LENGTH: 20
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Synthetic Sequence
313 <221> NAME/KEY: modified_base
314 <222> LOCATION: (12)...(12)
315 <223> OTHER INFORMATION: m5c
317 <400> SEQUENCE: 23 20
318 tccatgtcggt tcctgatgct
320 <210> SEQ ID NO: 24
321 <211> LENGTH: 20
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Synthetic Sequence
328 <400> SEQUENCE: 24 20
329 tccatgacgt tcctgatgct
331 <210> SEQ ID NO: 25
332 <211> LENGTH: 20
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Synthetic Sequence

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/824,468

DATE: 04/26/2001

TIME: 10:28:24

Input Set : N:\Crf3\RULE60\09824468.txt
Output Set: N:\CRF3\04262001\I824468.raw

L:100 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7